Volume 185, 1997

DEVELOPMENTAL BIOLOGY

Editor-in-Chief
Eric N. Olson

Consulting Editor
Helen M. Blau

Editors
Marianne Bronner-Fraser
Eric H. Davidson
Scott Fraser
Richard Harland
Philip Ingham
Laurinda A. Jaffe
Robb Krumlauf
Andrew P. McMahon
Gary Ruvkun
Matthew P. Scott

ACADEMIC PRESS

http://www.apnet.com

Copyright © 1997 by Academic Press

DEVELOPMENTAL BIOLOGY is a registered trademark
of Academic Press (a division of Harcourt Brace & Company)

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form, or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the Publisher.

The appearance of the code at the bottom of the first page of an article in this journal indicates the Publisher's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (222 Rosewood Drive, Danvers, Massachusetts 01923), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1997 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0012-1606/97 $25.00

MADE IN THE UNITED STATES OF AMERICA

This journal is printed on acid-free paper.

DEVELOPMENTAL BIOLOGY

Contents of Volume 185

Number 1, May 1, 1997

Microtubule Dependence of Chromosome Cycles in *Xenopus laevis* Blastomeres under the Influence of a DNA Synthesis Inhibitor, Aphidicolin	**Paul Clute and Yoshio Masui**	1
N-cadherin Promotes the Commitment and Differentiation of Skeletal Muscle Precursor Cells	**Mindy George-Weinstein, Jacquelyn Gerhart, Jennifer Blitz, Eileen Simak, and Karen A. Knudsen**	14
Multiple Ras Signals Pattern the *Drosophila* Ovarian Follicle Cells	**Tzumin Lee and Denise J. Montell**	25
Sorting of the Initial Cell Types in *Dictyostelium* Is Dependent on the *tipA* Gene	**Justin T. Stege, Gad Shaulsky, and William F. Loomis**	34
Fibroblast Growth Factor Receptor-1 (FGFR-1) Is Essential for Normal Neural Tube and Limb Development	**Chuxia Deng, Mark Bedford, Cuiling Li, Xiaoling Xu, Xiao Yang, Judy Dunmore, and Philip Leder**	42
In Vivo Regulation of Cytostatic Activity in *Xenopus* Metaphase II-Arrested Oocytes	**Catherine Thibier, Véronique De Smedt, Robert Poulhe, Denise Huchon, Catherine Jessus, and René Ozon**	55
Cytoplasmically Anchored Plakoglobin Induces a WNT-like Phenotype in *Xenopus*	**John M. Merriam, Adam B. Rubenstein, and Michael W. Klymkowsky**	67
Activation of the Wnt Signaling Pathway: A Molecular Mechanism for Lithium Action	**Chester M. Hedgepeth, Leslee J. Conrad, Jie Zhang, Hui-Chuan Huang, Virginia M. Y. Lee, and Peter S. Klein**	82
Delta-1 Is a Regulator of Neurogenesis in the Vertebrate Retina	**Iqbal Ahmad, Constance M. Dooley, and Dorisa L. Polk**	92
Inhibition of Chondrogenesis by *Wnt* Gene Expression *in Vivo* and *in Vitro*	**Julie A. Rudnicki and Anthony M. C. Brown**	104
Rapid Communication		
Lens Induction by Pax-6 in *Xenopus laevis*	**Curtis R. Altmann, Robert L. Chow, Richard A. Lang, and Ali Hemmati-Brivanlou**	119
Correction		
Volume 163, Number 1 (1994): Philip M. Iannaccone, Greg U. Taborn, Ray L. Garton, Matthew D. Caplice, and David R. Brenin, "Pluripotent Embryonic Stem Cells from the Rat Are Capable of Producing Chimeras," pp. 288–292		124
Feature		f-1

5 544HI 1730 XL 10/97 31249-200

Number 2, May 15, 1997

Wild-Type Myoblasts Rescue the Ability of Myogenin-Null Myoblasts to Fuse *in Vivo*	**Anita Myer, Daniel S. Wagner, Jay L. Vivian, Eric N. Olson, and William H. Klein**	**127**
Analysis of Neural Crest Cell Migration in Splotch Mice Using a Neural Crest-Specific LacZ Reporter	**George N. Serbedzija and Andrew P. McMahon**	**139**
N-Cadherin–Catenin Interaction: Necessary Component of Cardiac Cell Compartmentalization during Early Vertebrate Heart Development	**Kersti K. Linask, Karen A. Knudsen, and Yong-Hao Gui**	**148**
Role of the Dlx Homeobox Genes in Proximodistal Patterning of the Branchial Arches: Mutations of Dlx-1, Dlx-2, and Dlx-1 and -2 Alter Morphogenesis of Proximal Skeletal and Soft Tissue Structures Derived from the First and Second Arches	**Mengsheng Qiu, Alessandro Bulfone, Ingrid Ghattas, Juanito J. Meneses, Lars Christensen, Paul T. Sharpe, Robert Presley, Roger A. Pedersen, and John L. R. Rubenstein**	**165**
Distinct Signal/Response Mechanisms Regulate *pax1* and *QmyoD* Activation in Sclerotomal and Myotomal Lineages of Quail Somites	**Anne-Gaelle Borycki, Karen E. Strunk, Richard Savary, and Charles P. Emerson, Jr.**	**185**
In Vitro Preselection of Gene-Trapped Embryonic Stem Cell Clones for Characterizing Novel Developmentally Regulated Genes in the Mouse	**Robert K. Baker, Melissa A. Haendel, Bradley J. Swanson, Janet C. Shambaugh, Bruce K. Micales, and Gary E. Lyons**	**201**
Division of Labor of Schwann Cell Integrins during Migration on Peripheral Nerve Extracellular Matrix Ligands	**Richard Milner, Martin Wilby, Stephen Nishimura, Kevin Boylen, Gwynneth Edwards, James Fawcett, Charles Streuli, Robert Pytela, and Charles ffrench-Constant**	**215**
Regulation of *paraxis* Expression and Somite Formation by Ectoderm- and Neural Tube-Derived Signals	**Dražen Šošić, Beate Brand-Saberi, Corina Schmidt, Bodo Christ, and Eric N. Olson**	**229**
Genetic Relationships between the Mutations *spade* and *Sternopleural* and the *wingless* Gene in *Drosophila* Development	**M. A. Buratovich, R. G. Phillips, and J. R. S. Whittle**	**244**
Cell-Junctional and Cytoskeletal Organization in Mouse Blastocysts Lacking E-Cadherin	**Mami Ohsugi, Lionel Larue, Heinz Schwarz, and Rolf Kemler**	**261**

Author Index for Volume 185 **272**